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Attorney Docket No.: 23239-544

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Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/729,581
	Filing Date	December 3, 2003
	First Named Inventor	Keefe
	Group Art Unit	1645
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	23239-544

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
JF	A1	3,710,795	01/16/73	Higuchi et al.	128	260	
	A2	5,262,564	11/16/93	Kun et al.	562	430	
	A3	5,270,163	12/14/93	Gold et al.	435	6	
	A4	5,475,096	12/12/95	Gold et al.	536	23.1	
	A5	5,567,588	10/22/96	Gold et al.	435	6	
	A6	5,580,737	12/03/96	Polisky et al.	435	6	
	A7	5,582,981	12/10/96	Toole, et al.	435	6	
	A8	5,589,332	12/31/96	Shih et al.	435	6	
	A9	5,637,459	06/10/97	Burke et al.	435	6	
	A10	5,648,214	07/15/97	Nieuwlandt et al.	435	6	
	A11	5,660,985	08/26/97	Pieken et al.	435	6	
	A12	5,668,265	09/16/97	Nadeau, et al.	536	23.1	
	A13	5,672,695	09/30/97	Eckstein et al.	536	24.5	
	A14	5,683,867	11/04/97	Biesecker et al.	435	6	
	A15	5,698,687	12/16/97	Eckstein et al.	536	25.3	
	A16	5,705,337	01/06/98	Gold et al.	435	6	
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	A18	5,756,291	05/26/98	Griffin, et al.	435	6	
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	A20	5,817,635	10/06/98	Eckstein et al.	514	44	
	A21	5,834,186	11/10/98	George, et al.	435	6	
	A22	5,840,867	11/24/98	Toole, et al.	536	23.1	
	A23	5,858,660	01/12/99	Eaton et al.	435	6	
	A24	5,859,228	01/12/99	Janjic et al.	536	24.3	
	A25	5,958,691	09/28/99	Pieken et al.	435	6	
	A26	6,011,020	01/04/00	Gold et al.	514	44	
	A27	6,051,698	04/18/00	Janjic et al.	536	24.31	
	A28	6,107,037	08/22/00	Sousa et al.	435	6	
JF	A29	6,300,074 B1	10/09/01	Gold et al.	435	6	

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JF	B1	WO	92/07065	MAXPLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN	04/30/92	
	B2	WO	98/08974	INTELLIGENE LTD.	03/05/98	
	B3	WO	98/18480	NEXSTAR PHARMACEUTICALS, INC.	05/07/98	
	B4	WO	98/27104	YALE UNIVERSITY	06/25/98	
	B5	WO	99/31276	NEXSTAR PHARMACEUTICALS, INC.	06/24/99	
	B6	WO	00/70329	BRANDEIS UNIVERSITY	11/23/00	
	B7	WO	01/66721 A2	RIBOZYME PHARMACEUTICALS, INC.	09/13/01	
	B8	WO	02/22882 A2	ARCHEMIX CORPORATION	03/21/02	
JF	B9	WO	03/014375 A2	ARCHEMIX CORPORATION	02/20/03	
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS						
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.				
JF	C1	Bock et al. <i>Nature</i> , 355:564-566 (1992)				
	C2	Breaker R.R. <i>Curr. Opin. Biotech.</i> , 7:442-448 (1996)				
	C3	Breaker R.R. <i>Chem. Rev.</i> , 97:371-390 (1997)				
	C4	Breaker R.R. <i>Curr. Opin. Chem. Biol.</i> , 1:26-31 (1997)				
	C5	Breaker R.R. <i>Nat. Biotech.</i> , 15:427-431 (1997)				
	C6	Breaker R.R. <i>Intracellular Ribozyme Applications in Principles and Protocols</i> , pgs. 1-19; Horizon Scientific Press, Wymondham UK, Rossi and Couture, eds., (1999)				
	C7	Breaker R.R. <i>Curr. Opin. Biotech.</i> , 13:31-39 (2002)				
	C8	Briebe et al. <i>Biochem.</i> , 39:919-923 (2000)				
	C9	Carmi et al. <i>Chem. & Biol.</i> , 3:1039-1046 (1996)				
	C10	Cotten et al. <i>Nucl. Acids Res.</i> , 19(10):2629-2635 (1991)				
	C11	DeAnda et al. <i>Ann. Thorac. Surg.</i> , 58:344-350 (1994)				
	C12	Froehler et al. <i>Nucl. Acids Res.</i> , 14(13):5399-5407 (1986)				
	C13	Froehler et al. <i>Tet. Lett.</i> , 27(46):5575-5578 (1986)				
	C14	Gold L. <i>Nat. Biotech.</i> , 20: 671-672 (2002)				
	C15	Graham et al. <i>Nucl. Acids Res.</i> , 21(16):3737-3743 (1993)				
	C16	Griffin et al. <i>Blood</i> , 81(12):3271-3276 (1993)				
	C17	Hamaguchi et al. <i>Anal. Biochem.</i> , 294:126-131 (2001)				
	C18	Hartig et al. <i>Nat. Biotech.</i> , 20:717-722 (2002)				
	C19	Hirose et al. <i>Tet. Lett.</i> , 28:2449-2452 (1978)				
	C20	Hobbs et al. <i>Biochem.</i> , 12(25):5138-5145 (1973)				
	C21	Jenne et al. <i>Nat. Biotech.</i> , 19:56-61 (2001)				
	C22	Koizumi et al. <i>Nucl. Acids Symp. Ser.</i> , 42:275-276 (1999)				
	C23	Koizumi et al. <i>Nat. Struct. Biol.</i> , 6(11):1062-1071 (1999)				
	C24	Lee et al. <i>Pharmac. Res.</i> , 12(12):1943-1947 (1995)				
JF	C25	Li et al. <i>Blood</i> , 83(3):677-682 (1994)				

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Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
JF	C26	Li et al. <i>Curr. Opin. Struct. Biol.</i> , 9:315-323 (1999)			
	C27	Li et al. <i>Proc. Natl. Acad. Sci. USA</i> , 96:2746-2751 (1999)			
	C28	Marshall et al. <i>Nat. Struct. Biol.</i> , 6(11):992-994 (1999)			
	C29	Paborsky et al. <i>J. Biol. Chem.</i> , 268(28):20808-20811 (1993)			
	C30	Padilla et al. <i>Nucl. Acids Res.</i> , 30(24):e138 (2002)			
	C31	Potyralo et al. <i>Anal. Chem.</i> , 70:3419-3425 (1998)			
	C32	Robertson et al. <i>Nucl. Acids Res.</i> , 28(8):1751-1759 (2000)			
	C33	Robertson et al. <i>Nat. Biotech.</i> , 17:62-66 (1999)			
	C34	Robertson et al. <i>Nat. Biotech.</i> , 19:650-655 (2001)			
	C35	Sassanfar et al. <i>Nature</i> , 364:550-553 (1993)			
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	C37	Seiwert et al. <i>Chem. & Biol.</i> , 7:833-843 (2000)			
	C38	Shaw et al. <i>Pharmac. Res.</i> , 12(12):1937-1942 (1995)			
	C39	Sood et al. <i>Nucl. Acids Res.</i> , 4(8):2757-2765 (1977)			
	C40	Soukup et al. <i>Proc. Natl. Acad. Sci. USA</i> , 96:3584-3589 (1999)			
	C41	Soukup et al. <i>RNA</i> , 5:1308-1325 (1999)			
	C42	Soukup et al. <i>Structure</i> , 7(7):783-791 (1999)			
	C43	Soukup et al. <i>Tren. Biotech.</i> , 17:469-476 (1999)			
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	C46	Soukup et al. <i>J. Mol. Biol.</i> , 298:623-632 (2000)			
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	C49	Tang et al. <i>Nucl. Acids Res.</i> , 26(18):4214-4221 (1998)			
	C50	Tang et al. <i>RNA</i> , 3:914-925 (1997)			
	C51	Tsiang et al. <i>J. Biol. Chem.</i> , 270(28):16854-16863 (1995)			
	C52	Tucker et al. <i>Chromatography B</i> , 732:203-212 (1999)			
	C53	Wang et al. <i>Biochem.</i> , 32:1899-1904 (1993)			
JF	C54	International Search Report for PCT/US03/38733, mailed September 7, 2004			

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature	/Jeffrey Fredman/	Date Considered	04/10/2006
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Attorney Docket No.: 23239-544

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Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/729,581
	Filing Date	December 3, 2003
	First Named Inventor	Keefe et al.
	Group Art Unit	1645
	Examiner Name	Jeffrey Norman Fredman
	Attorney Docket Number	23239-544

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
JF	*A30	4,683,195	07/28/87	Mullis			
	*A31	4,711,955	12/08/87	Ward et al.			
	*A32	4,828,979	05/09/89	Klevan et al.			
	*A33	4,935,363	06/19/90	Brown et al.			
	*A34	4,959,309	9/25/90	Dattagupta et al.			
	*A35	5,070,010	12/03/91	Hsu			
	*A36	5,338,671	8/16/94	Scalice et al.			
	*A37	5,459,015	10/17/95	Janjic et al.			
	*A38	5,476,766	12/19/95	Gold et al.			
	*A39	5,496,938	03/05/96	Gold et al.			
	*A40	5,503,978	4/12/96	Schneider et al.			
	*A41	5,543,293	08/06/96	Gold et al.			
	*A42	5,635,615	06/03/97	Allen et al.			
	*A43	5,654,151	08/05/97	Allen et al.			
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	*A46	5,789,157	08/04/98	Jensen et al.			
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	*A50	6,020,130	02/01/00	Gold et al.			
	*A51	6,184,364	02/06/01	Pieken et al.			
↓	*A52	6,476,205	11/05/02	Buhr et al.			
	*A53	6,528,640	03/04/03	Beigelman et al.			
JF	*A54	6,649,751	11/18/03	Usman et al.			
U.S. PUBLISHED APPLICATION DOCUMENTS							
Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

Date of Deposit: March 29, 2006

Attorney Docket No.: 23239-544

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	Translation No	
JF	B10	AU AU-B-4758690	Hornes et al.	06/26/90			
	B11	EP 0592035	Scalice, E. et al.	01/03/96			
	B12	UK 2 183 661 A	Ballivet, M. et al.	06/10/87			
	B13	PCT WO89/06694	Kauffman, S.A. et al.	07/27/89			
	B14	PCT WO91/14436	Ecker, D.J. et al.	10/03/91			
	B15	PCT WO 91/19813	Gold, L. et al.	12/26/91			
	B16	PCT WO92/05285	Weintraub, H.M. et al.	04/02/92			
	B17	PCT WO92/14842	Toole, J. et al.	09/03/92			
	B18	PCT WO92/14843	Toole, J. et al.	09/03/92			
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	C58	Carey et al. (1983) Biochem. 22(11):2601
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JF	C74	Kramer et al. (1974) J. Mol. Biol. 89:719
	C75	Lestienne et al. (1983) Biochimie. 65:49
	C76	Levisohn & Spiegelman (1968) PNAS USA 60:866
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	C78	Ma and Ptashne (1987) Cell 51: 113
	C79	Maniatis (1982) Molecular Cloning: a Laboratory Manual, Cold Spring Harbor, NY pg.118
	C80	Maniatis et al. (1987) Science 236: 1237
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	C92	Ou et al. (1988) Science 239:295
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	C98	Sambrook et al. (1989) Molecular Cloning: A Laboratory Manual, Cold Spring Harbor, NY, Section 8.9-8.10
	C99	Singleton et al., Dictionary of Microbiol. & Molec. Biol., Wiley & Sons, New York, NY, 2nd ed. p. 493
	C100	Smith, D. "Magnesium as the Catalytic Center of RNA Enzymes." <u>The Biological Chemistry of Magnesium</u> , Chapter 5, pp. 111-135.
	C101	Szostak, A Structure and Activity of Ribozymes, Redesigning the Molecules of Life, (SA Benner ed.) Springer-Verlag Berlin Heidelberg, pp. 87-113 (1988)
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	C103	Thiesen & Bach (1990) Nucleic Acids Research 18:3203
	C104	Tuerk et al., (1990) Science 249:501-510
	C105	Tuerk et al., (1992) Proc. Natl. Acad. Sci. 89:6988-6992
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Attorney Docket No.: 23239-544

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
JF	C108	Yin et al., (2002) Science 298:1387-1395

* By the waiver of 37 CFR 1.98(a)(2)(I) copies of the U.S. Patents A30-54 are not submitted.

Examiner Signature	/Jeffrey Fredman/	Date Considered	04/18/2006
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EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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